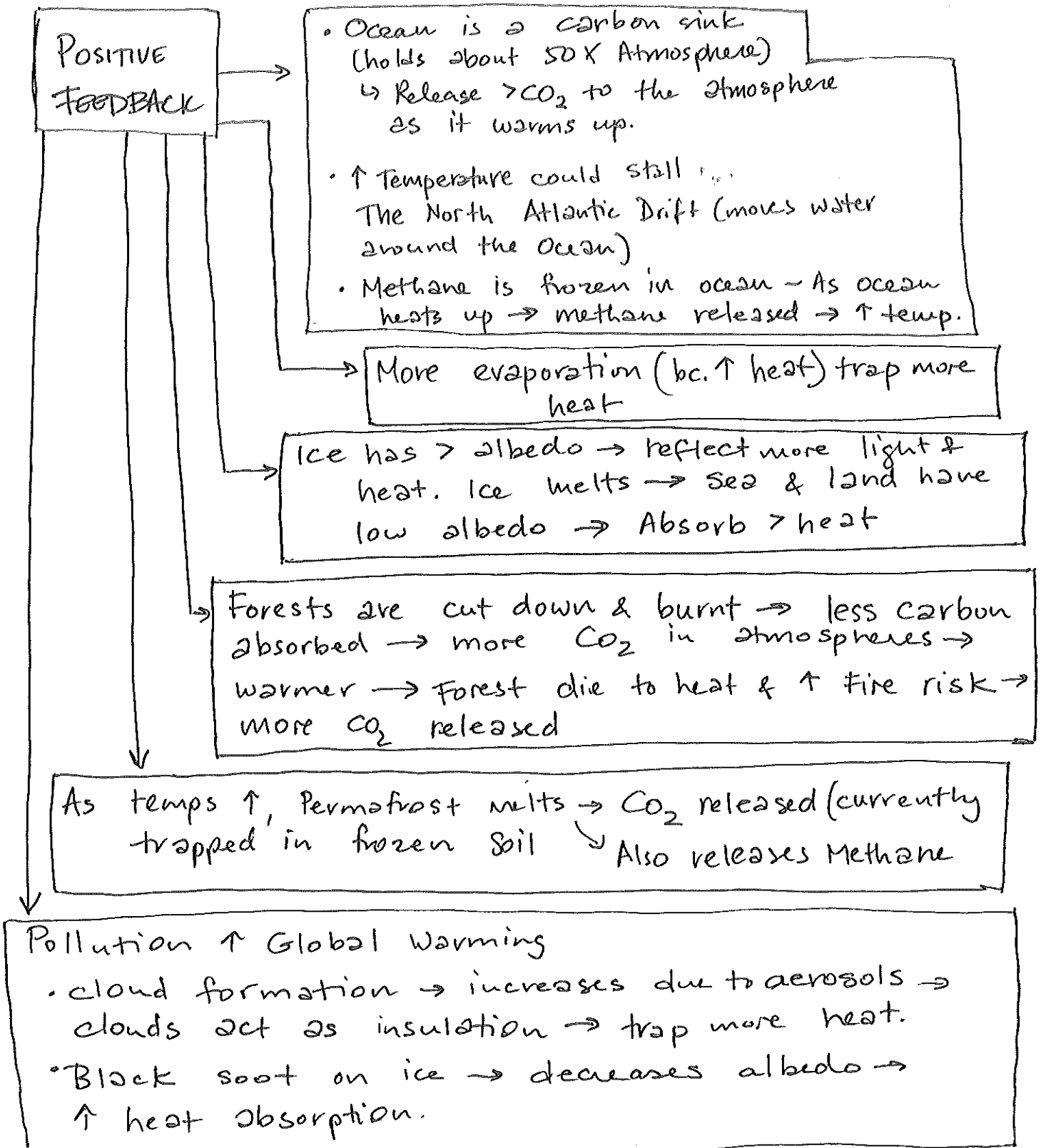


Positive & Negative Feedback

1.1.6 Define and explain the principles of positive feedback and negative feedback

6.1.4 Discuss the feedback mechanisms that would be associated with an increase in mean global temperature



NEGATIVE FEEDBACK

Oceans absorb more CO_2 in warmer water as phytoplankton photosynthesize faster \rightarrow produce more phytoplankton that absorb more $\text{CO}_2 \rightarrow$ reduce global warming

More evaporation \rightarrow more clouds \rightarrow reflect heat from outer space

Warmer air carries more $\text{H}_2\text{O} \rightarrow$
 $>$ rainfall & snow
 \hookrightarrow more reflection \rightarrow
lower temps \rightarrow more snow & ice

Forests act as carbon sinks,
remove CO_2 from the atmosphere

Pollution: Aerosols from pollution (sulfates esp) \rightarrow cause condensation \rightarrow more clouds form \rightarrow reflect heat \rightarrow $>$ albedo